

# Programming Language Extensions For Processing Data Representation Language Objects And Related Applications

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## ABSTRACT OF THE DISCLOSURE

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A system is provided for manipulating data representation language based -  
objects in a native programming language environment. In one embodiment, the  
system is used to map data objects of the data representation language to  
corresponding objects within the native programming language and vice versa. In one  
embodiment, the system is equipped to receive a mapping definition mapping selected  
elements of a data representation language, such as an XML data structure, to selected  
objects of a programming language, such as ECMAScript. The system is further  
equipped to determine whether the mapping definition comprises one or more  
definitional statements expressed with data representation language oriented language  
elements of a programming language. Further, the system is equipped to process the  
mapping definition statements comprising data representation language oriented  
language elements of the programming language, in accordance with syntactical and  
semantic definitions of the data representation language oriented language elements.